Memorial University of Newfoundland

Wireless Connection Installation Manual

Windows 7

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Disclaimer

This document is written using a “vanilla” configuration of Windows 7, any user of this guide should be aware that third party programs (such as anti-virus suites and laptop manufacturer network control software) may interfere with configuring the wireless network. This guide is intended as a “best effort” setup. The steps detailed in this guide have been tested and working on a fully patched and up to date 64bit Windows 7 laptop, using the built in wireless card. Due to the nature of wireless networking, additional wireless drivers and/or troubleshooting may be needed, but this would have to be evaluated on a case-by-case basis and is to be understood by client and support personnel that all work is done as “best effort”.

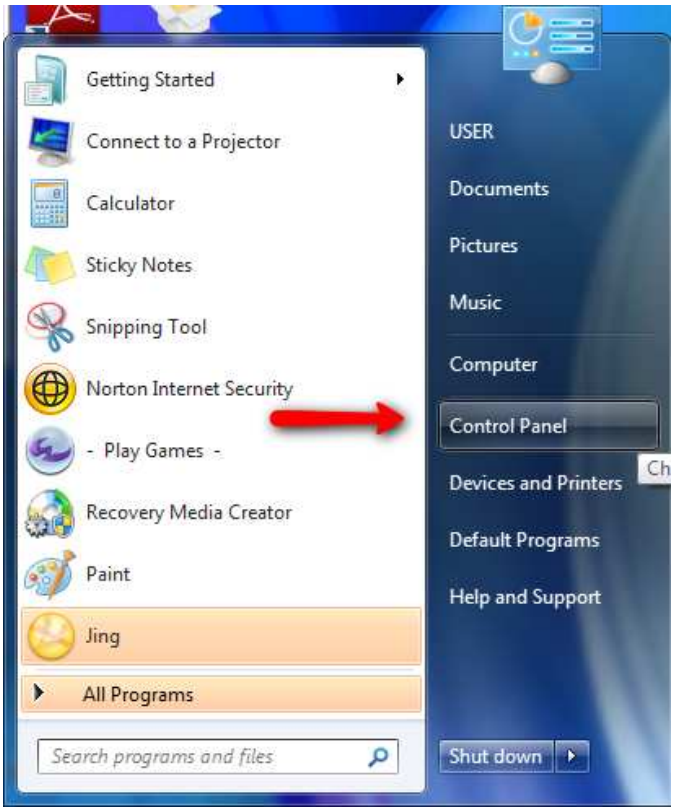
Windows 7 Mun Wireless Configuration

Requirements:

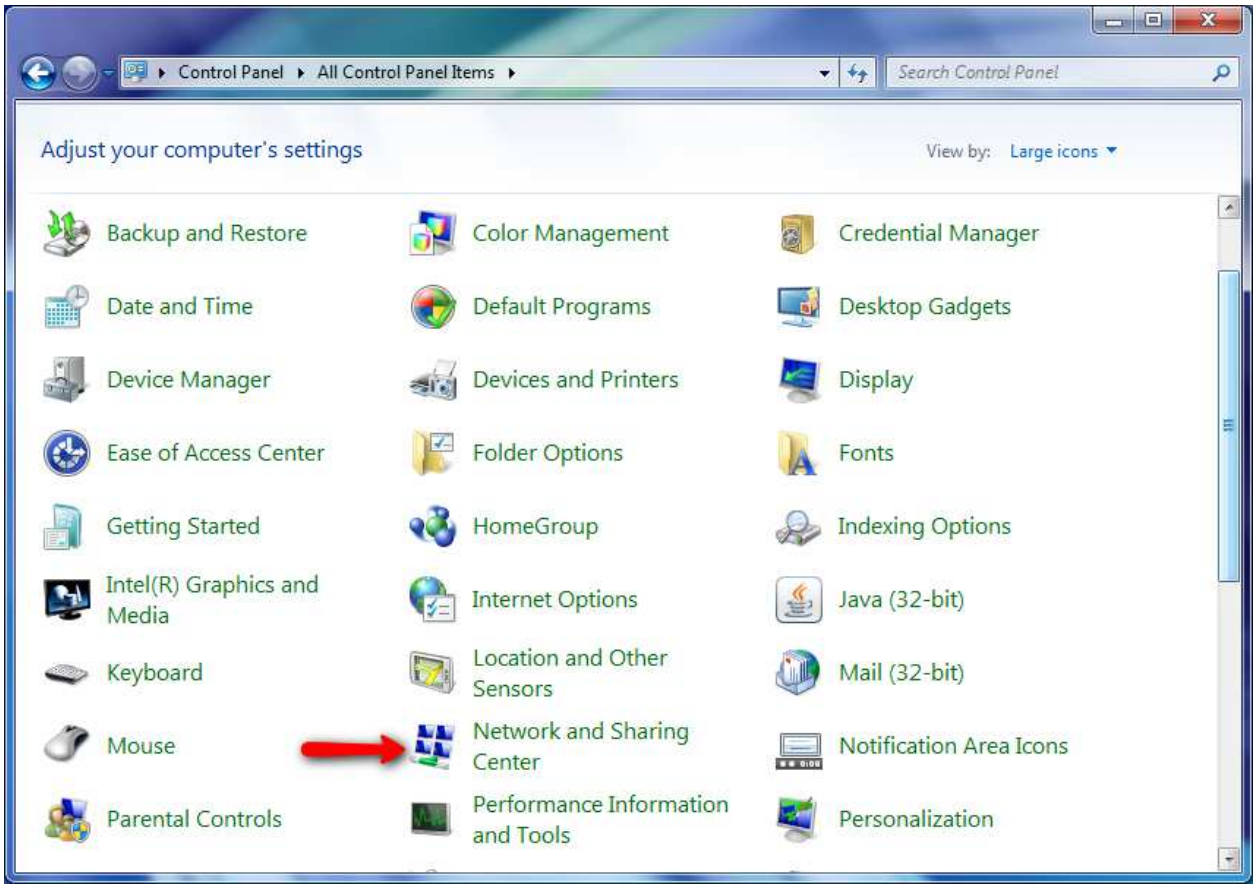
- A laptop with Windows 7 operating system with latest service pack and patches applied.
- A wireless network card supporting IEEE 802.11g installed with the latest drivers. NOTE: Do not install the network card software, only install the drivers.
- Your wireless account, and SSID can be generated online at https://www.mun.ca/cc/services/network/wireless/dattool.php

Configuration

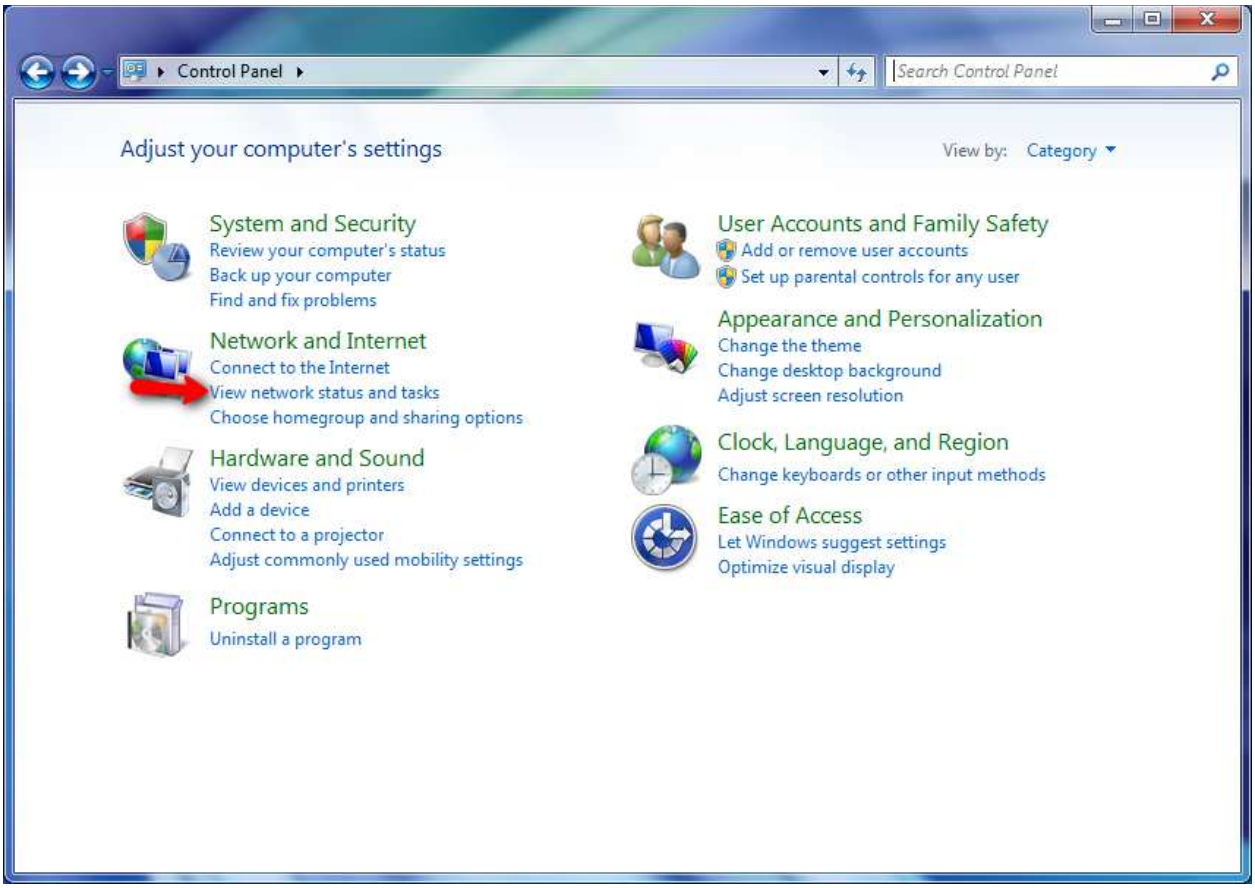
1. Click Start and then click Control Panel



2. Depending on your configuration, you will see one of the two following screens:

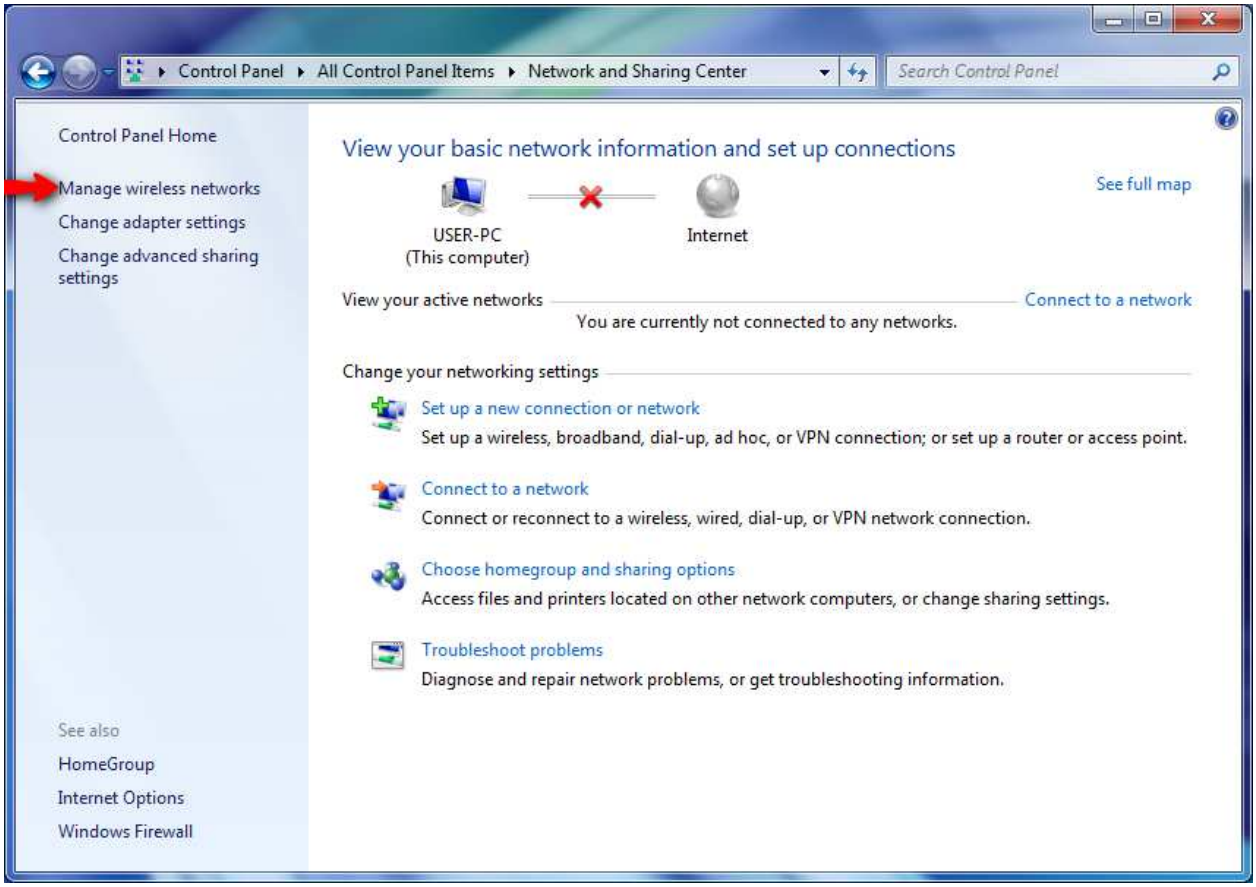


   a. If you see the above, double click on “Network and Sharing Center”

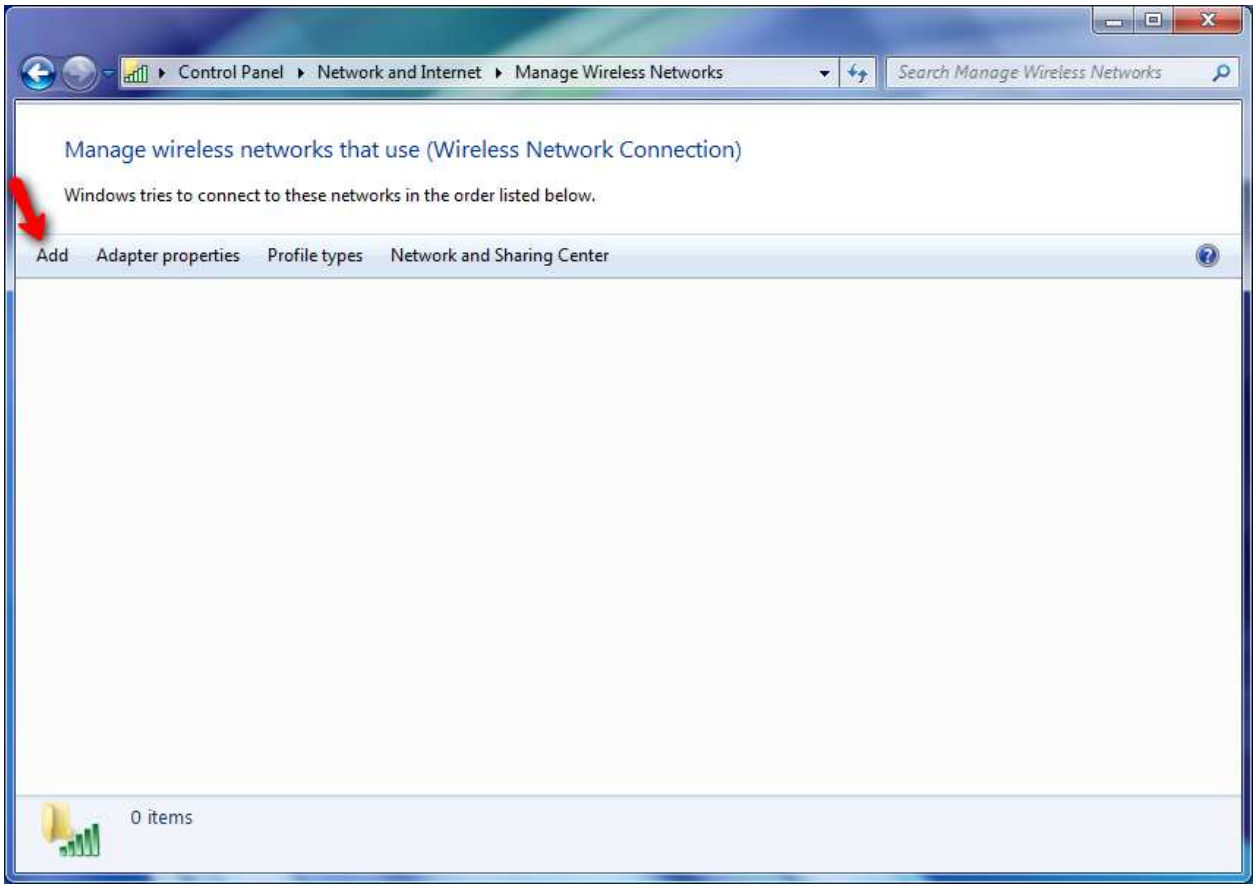


b. If you see the above, click “View network Status and tasks”

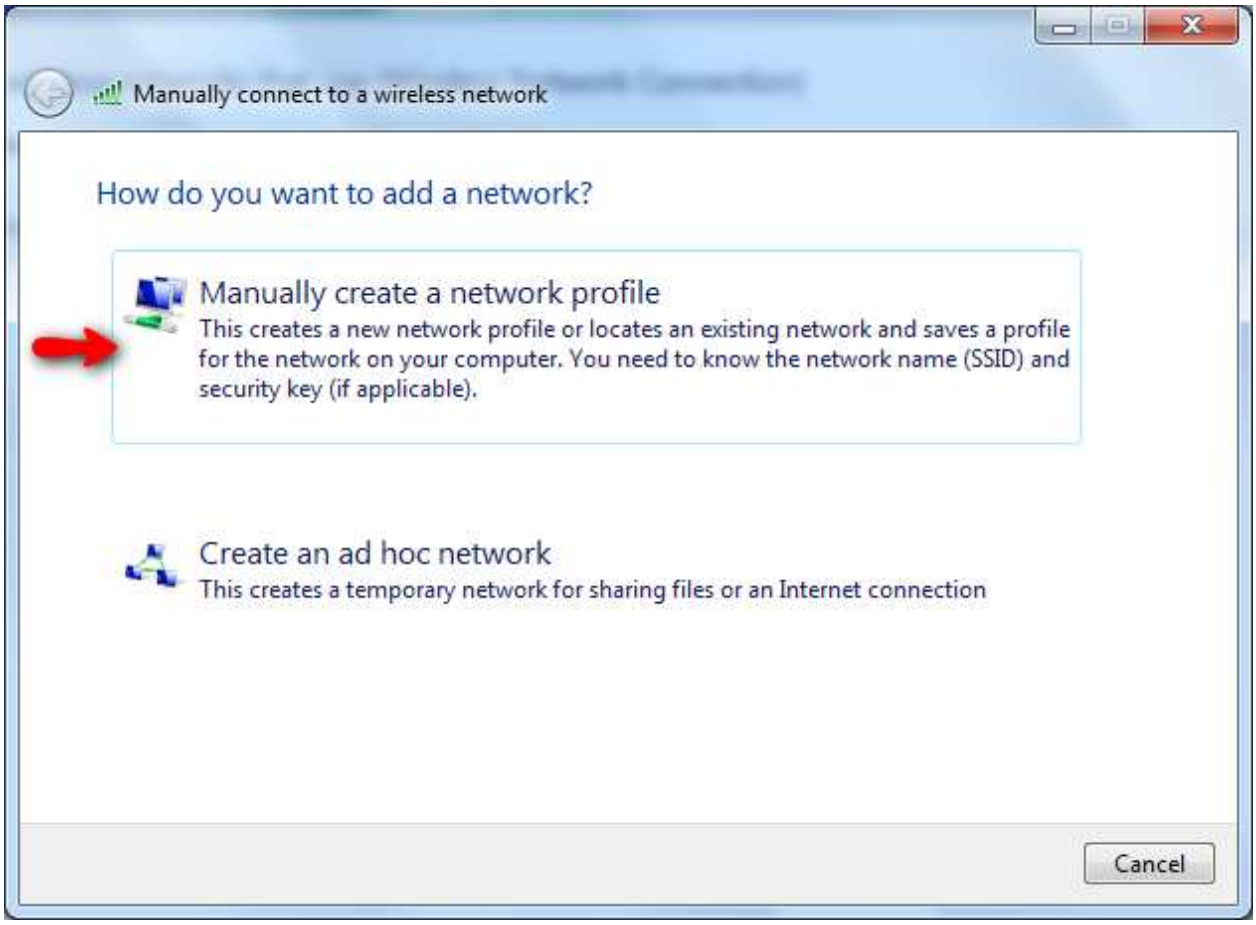
3. Either of these options will bring you to “Network and Sharing Center”, click “Manage wireless networks” on the left hand “tasks” bar


Control Panel ▸ All Control Panel Items ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Manage wireless networks
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
USER-PC
(This computer)
Internet
View your active networks
Connect to a network
You are currently not connected to any networks.
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall

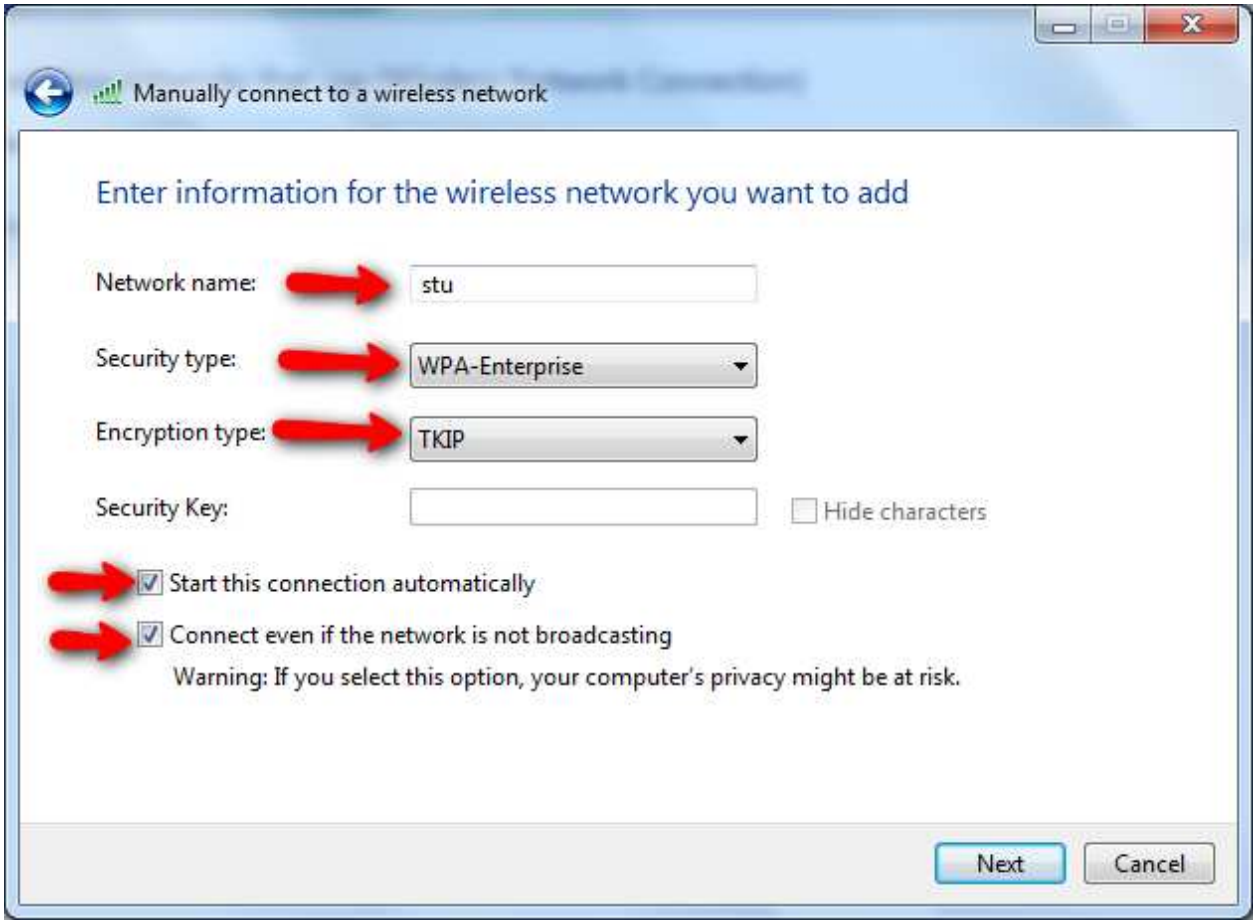
4. A new window will appear, click “Add”


Control Panel ▸ Network and Internet ▸ Manage Wireless Networks
Search Manage Wireless Networks
Manage wireless networks that use (Wireless Network Connection)
Windows tries to connect to these networks in the order listed below.
Add
Adapter properties
Profile types
Network and Sharing Center
0 items

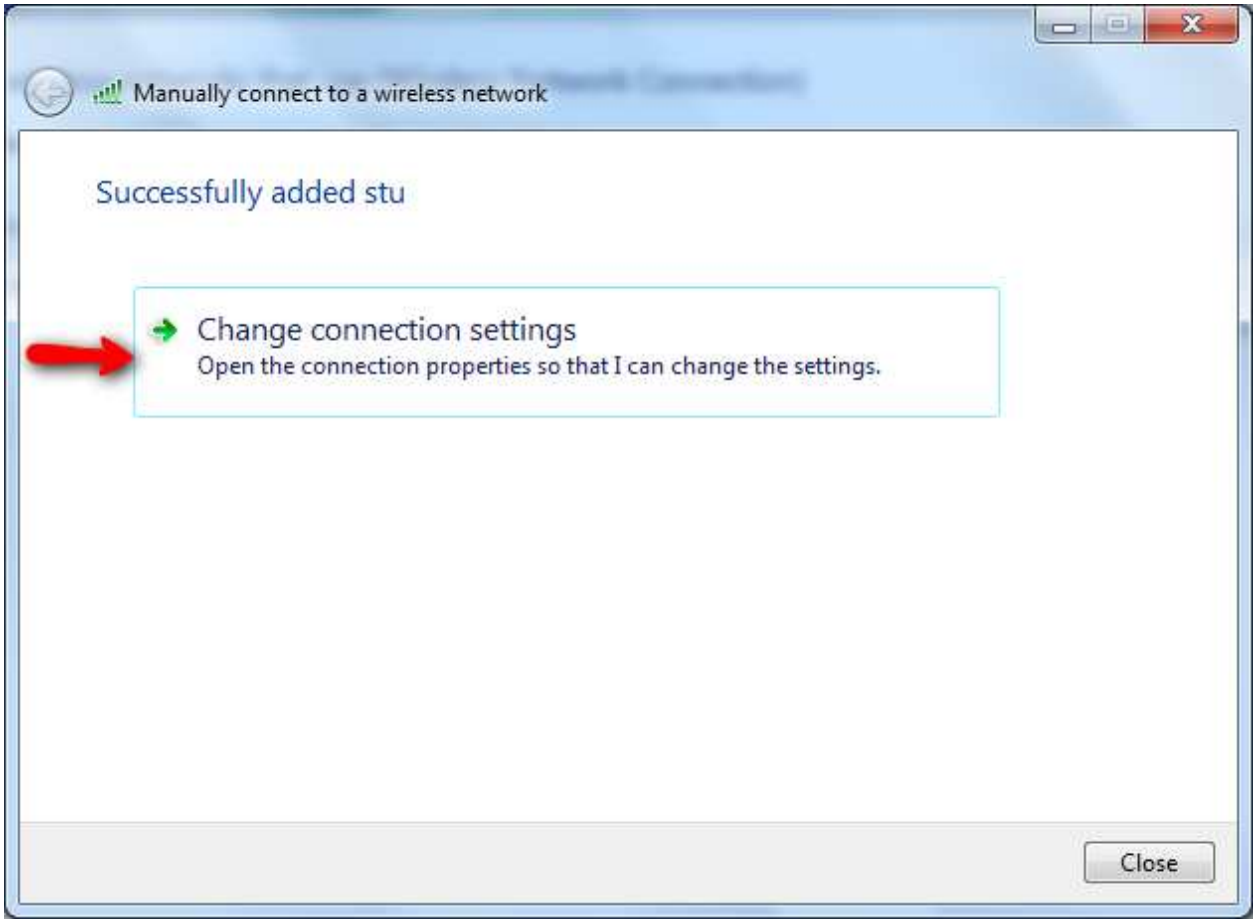
5. Another window will appear, select the first option, “Manually create a network profile”


Manually connect to a wireless network
How do you want to add a network?
Manually create a network profile
This creates a new network profile or locates an existing network and saves a profile for the network on your computer. You need to know the network name (SSID) and security key (if applicable).
Create an ad hoc network
This creates a temporary network for sharing files or an Internet connection
Cancel

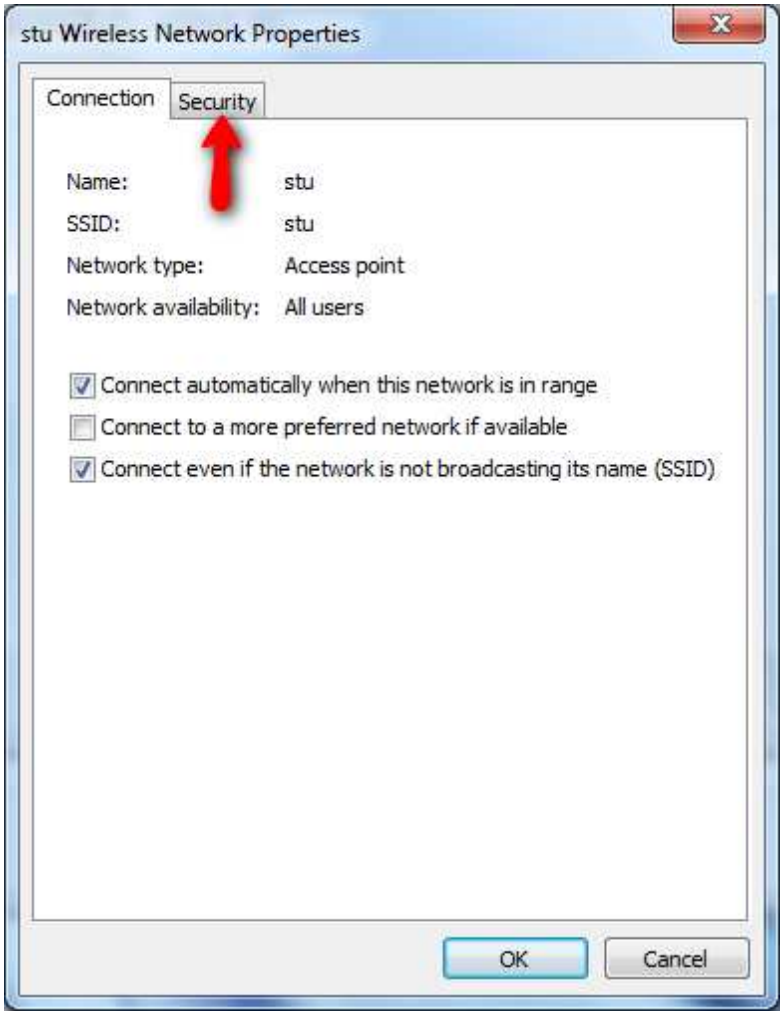
6. Enter the Network Name (this information should have given to you when you completed the DAT form, it will be either stu, fac or guest. Stu is used in this example), select “WPA-Enterprise” from the Security type drop down, “TKIP” from the Encryption type drop down, and ensure the two check boxes are ticked.



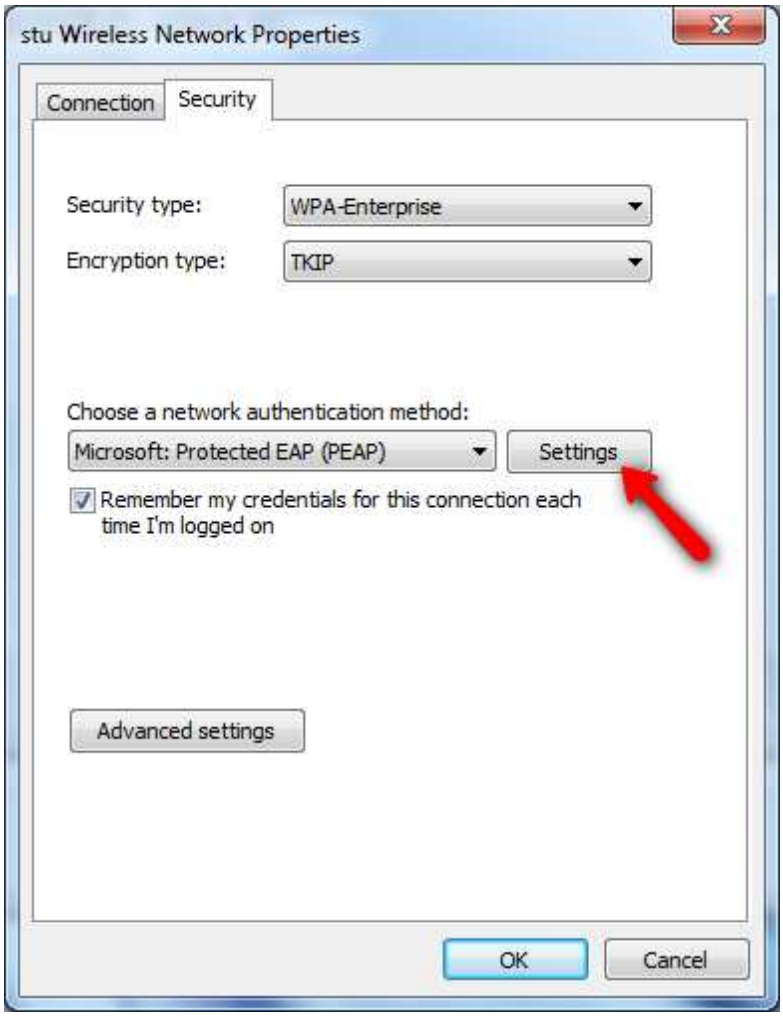
7. When you are done, click next, and then choose “Change connection settings” from the next window.


Manually connect to a wireless network
Successfully added stu
Change connection settings
Open the connection properties so that I can change the settings.
Close

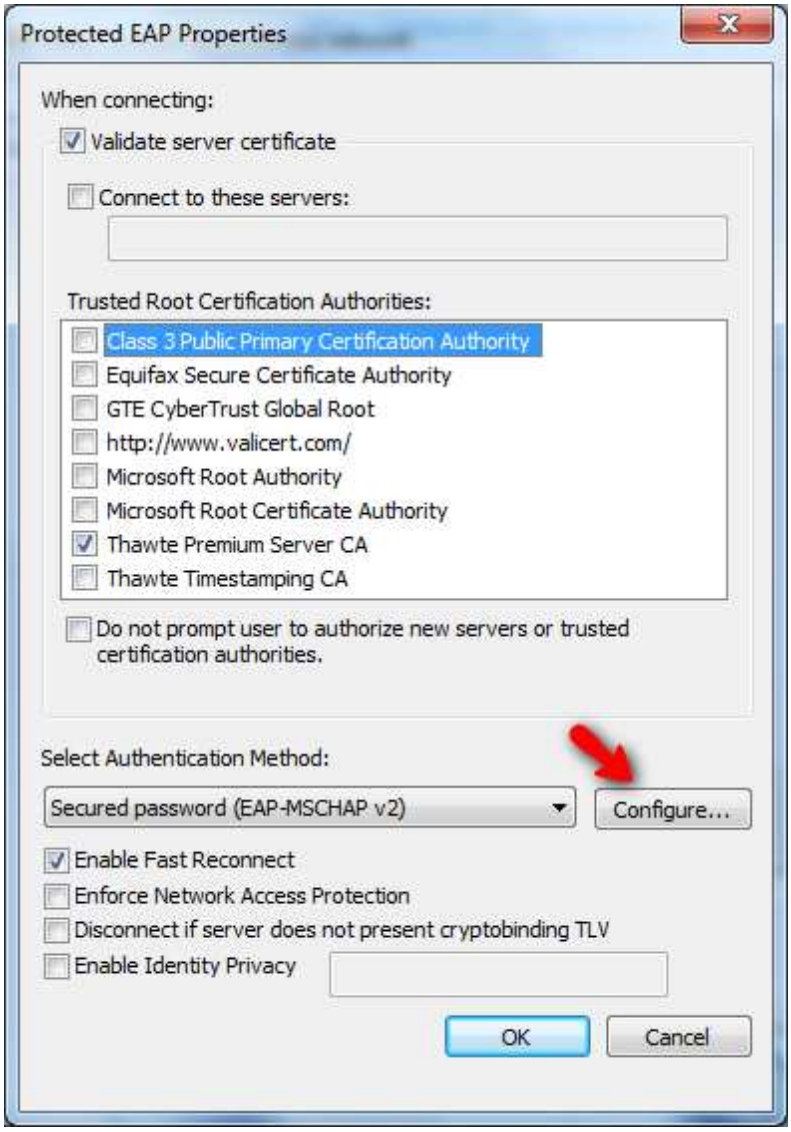
8. Another new window will appear, uncheck “Connect to a more preferred network if available”, and then click the “Security” tab on the top



9. Make sure “Microsoft: Protected EAP (PEAP)” is selected in the drop down, then click Settings



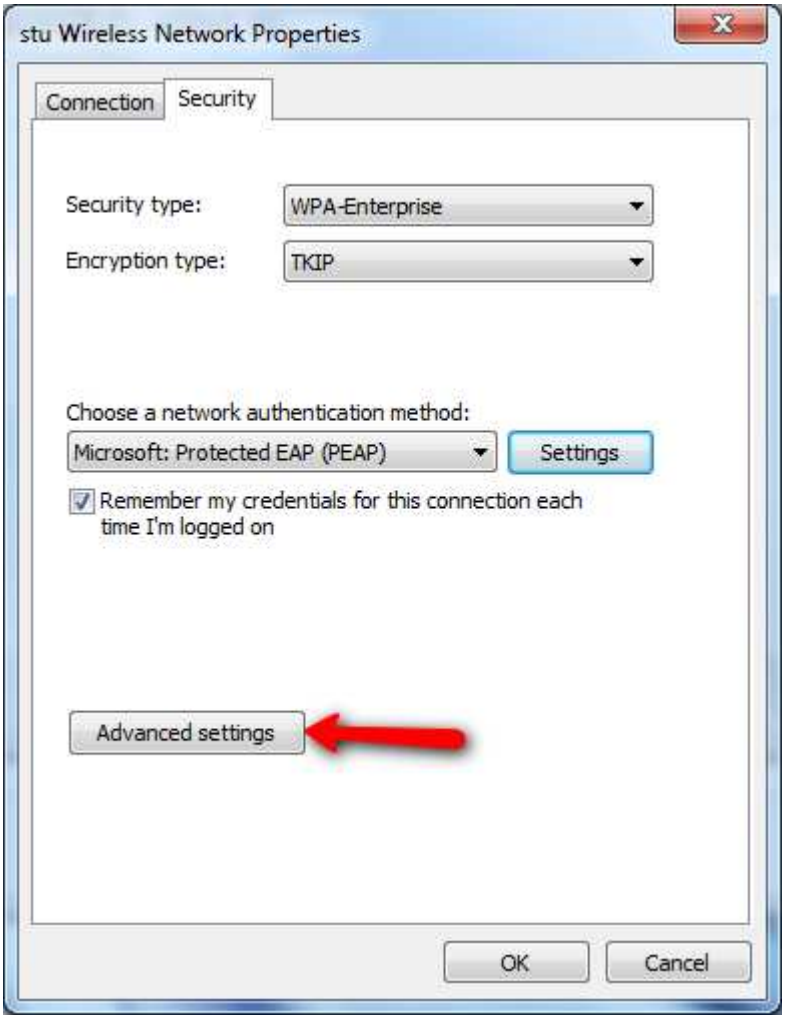
10. Click “Configure” next to “Secured password (EAP-MSCHAP v2)” (Validate server certificate can be left checked)



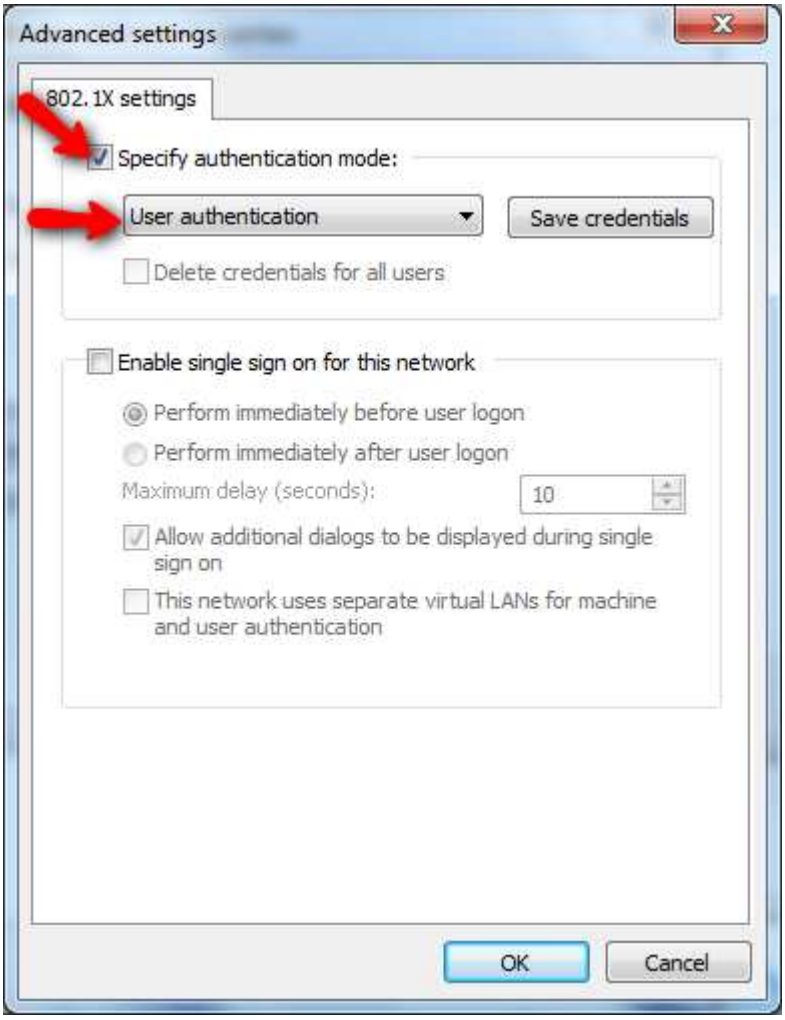
11. A smaller window will appear, uncheck the only check box there, and click OK

12. Click OK on the Protected EAP properties window (step 10)

13. You should now be back at the Network Properties window, click the “Advanced Settings” button.



14. In the new window, click the check box on the top, and choose “User Authentication” from the drop down, then click “ok” to any open window.


Advanced settings
802.1X settings
Specify authentication mode:
User authentication
Save credentials
Delete credentials for all users
Enable single sign on for this network
Perform immediately before user logon
Perform immediately after user logon
Maximum delay (seconds):
10
Allow additional dialogs to be displayed during single sign on
This network uses separate virtual LANs for machine and user authentication
OK
Cancel

15. If everything went ok, you should see a balloon in the lower right corner, click this balloon

16. Clicking the balloon should bring up the credentials box, enter the username and password, but leave the “Logon domain” field blank, and click OK

17. After credentials are entered, you will see the “Additional information” bubble again, click it and the following message should appear, click OK to accept the certificate (this should only appear on the first connection).

Validate Server Certificate
The Root Certification Authority for the server's certificate is: Thawte Premium Server CA
If this is the correct certificate, click OK to connect and you will not see this message again. Click CANCEL to drop connection.
View Server Certificate
OK
Cancel

18. After a few seconds it should connect and no more windows or messages should appear.
    a. If the Enter Credentials box continues to appear, or the balloon stating Additional information is required, it may mean the password or username is being typed in wrong, or a setting was missed along the way. Double check the configuration, and re-submit the DAT form if unsure about the password.